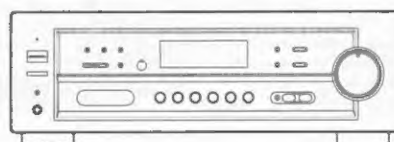


# *Operating Instructions*

## AUDIO/VIDEO MULTI-CHANNEL RECEIVER

**VSX-D307  
VSX-D307-HT**

NTSC



**PIONEER**  
*The Art of Entertainment*

Thank you for buying this Pioneer product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However the method of connecting and operating the unit is the same.

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

## IMPORTANT NOTICE

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

### IMPORTANT



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

### CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN

CAUTION:  
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

# IMPORTANT SAFETY INSTRUCTIONS

**READ INSTRUCTIONS** — All the safety and operating instructions should be read before the product is operated.

**RETAIN INSTRUCTIONS** — The safety and operating instructions should be retained for future reference.

**HEED WARNINGS** — All warnings on the product and in the operating instructions should be adhered to.

**FOLLOW INSTRUCTIONS** — All operating and use instructions should be followed.

**CLEANING** — Unplug this product from the wall outlet before cleaning. The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzene, insecticides or other volatile liquids since they may corrode the cabinet.

**ATTACHMENTS** — Do not use attachments not recommended by the product manufacturer as they may cause hazards.

**WATER AND MOISTURE** — Do not use this product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

**ACCESSORIES** — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

**CART** — A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



**VENTILATION** — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

**POWER SOURCES** — This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

**LOCATION** — The appliance should be installed in a stable location.

**NONUSE PERIODS** — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

## GROUNDING OR POLARIZATION

- If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

**POWER-CORD PROTECTION** — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

**OUTDOOR ANTENNA GROUNDING** — If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.

**LIGHTNING** — For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

**POWER LINES** — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

**OVERLOADING** — Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

**OBJECT AND LIQUID ENTRY** — Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

**SERVICING** — Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**DAMAGE REQUIRING SERVICE** — Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance — this indicates a need for service.

**REPLACEMENT PARTS** — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

**SAFETY CHECK** — Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

**WALL OR CEILING MOUNTING** — The product should not be mounted to a wall or ceiling.

**HEAT** — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

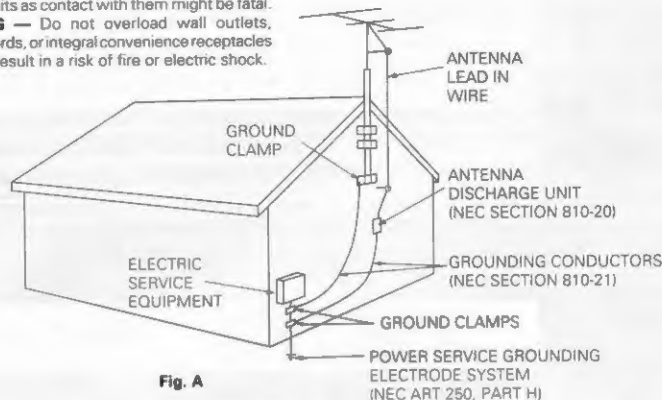


Fig. A

NEC — NATIONAL ELECTRICAL CODE

# FEATURES

## ☐ **DOLBY\* PRO LOGIC COMPATIBLE**

Best suited for playing back movies and music by reproducing surround effects.

## ☐ **100 W 4 ch EQUAL POWER AMPLIFIER**

4 ch equal power amplifier which plays back the high quality effect of Dolby Pro Logic.

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## ☐ FIVE DSP MODES

Reproduces five surround effects-HALL, JAZZ, DANCE, THEATER 1 AND THEATER 2.

## ☐ VIRTUAL DOLBY\* SURROUND

The Virtual Dolby Surround function creates a three-dimensional sound field using only the front right and left speakers.

\* Dolby is a registered trademark of Dolby Laboratories Licensing Corporation.

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1

2

3

4

5

# READING THIS MANUAL

## ■ Meaning of Marks



Provides detailed precautions and advice on operations, etc.



Indicates that displays are blinking.



Indicates that displays are lit.

## ■ Meaning of Illustrations

The following describes illustrations on pressing buttons.



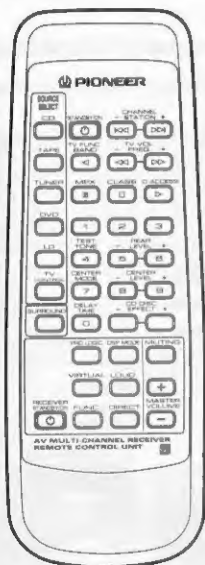
Means to press the PRO LOGIC button.



Means to press the MASTER VOLUME + or MASTER VOLUME – button (of the remote control unit).

# 1. BEFORE USE

## CHECKING ACCESSORIES



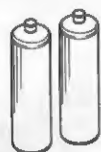
Remote control unit



FM antenna



AM loop antenna



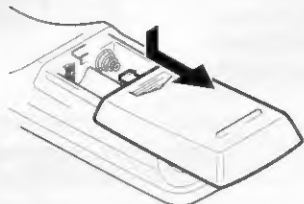
Dry cell battery  
(size "AA" IEC R6P) × 2

\* The remote control unit and dry cell battery are not provided with VSX-D307-HT.

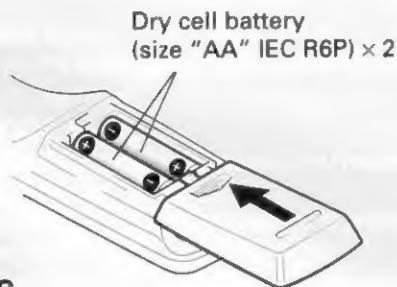
## REMOTE CONTROL UNIT

### Loading Remote Control Batteries

1.



2.



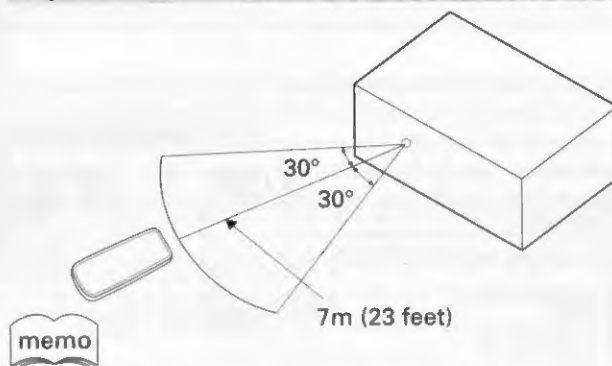
Dry cell battery  
(size "AA" IEC R6P) × 2

### CAUTIONS

Incorrect use of batteries may result in such hazards as leakage and bursting. Observe the following precautions.

- Never use new and old batteries together.
- Insert the plus and minus sides of the batteries properly according to the marks in the battery case.
- Batteries with the same shape may have different voltages. Do not use different batteries together.

## Operating Range of Remote Control Unit



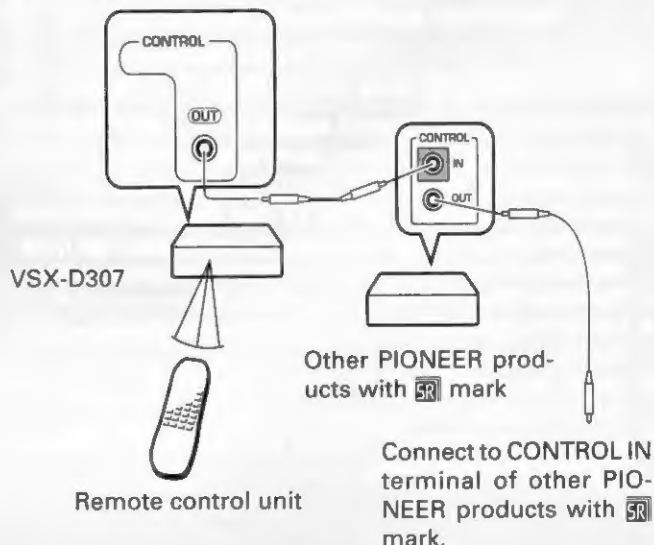
memo

- The remote control unit may not work if there are obstacles between the remote control unit and this unit, and if the remote control unit is not directed towards the remote sensor of the main unit at the correct angle.
- The remote control unit may not work properly if strong light such as direct sunlight and fluorescent light is shining onto the main unit's remote sensor.
- The remote control unit may not work properly when this unit is used near devices emitting infrared rays, or when remote control units of other devices which use infrared rays are used.  
On the other hand, the use of this remote control unit may cause other devices to work improperly.
- When the operating range of this remote control unit becomes too short, replace the batteries.

## Operating the Remote Control Unit

By connecting the control cord (optional), other PIONEER products can be operated using this remote control unit via this unit. Direct the remote control unit towards the remote sensor of this unit.

The remote control signals are received by the remote sensor of this unit, and sent to the other devices via the CONTROL OUT terminal.

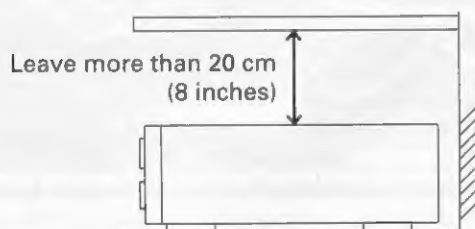


1  
BEFORE USE

## INSTALLATION

### Installing this Unit

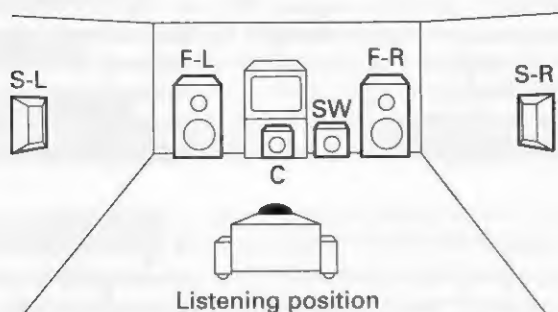
- Do not place objects on top of this unit so that radiated heat can be properly dispersed.
- When installing in racks, etc., leave more than 20 cm (8 inches) of space at the top.



### Installing Speakers

To achieve the best surround effects, install speakers as shown in the following figure.

#### Installation Example



In the above figure, F indicates front speakers, S indicates surround speakers, C indicates center speaker, SW indicates sub woofer, R indicates right, and L indicates left.



- If installing the surround speakers far away from the front and center speakers, surround effects cannot be fully achieved.
- Installing speakers near the TV may cause interference such as the TV color to change. In such cases, use magnetically shielded speakers or install the speakers away from the TV.
- Install the left and right speakers at equal distance from the TV.
- Install the center speaker at the top, bottom, or behind the TV so that TV sound and images match.
- It is recommended to install the surround speakers slightly above ear level.

### Installing the Cassette Deck

The cassette deck may produce noise when played back depending on the place of installation.

The noise is due to the effects of leakage flux caused by the transformer of the receiver.

In such cases, change the place of installation or install it away from the receiver.

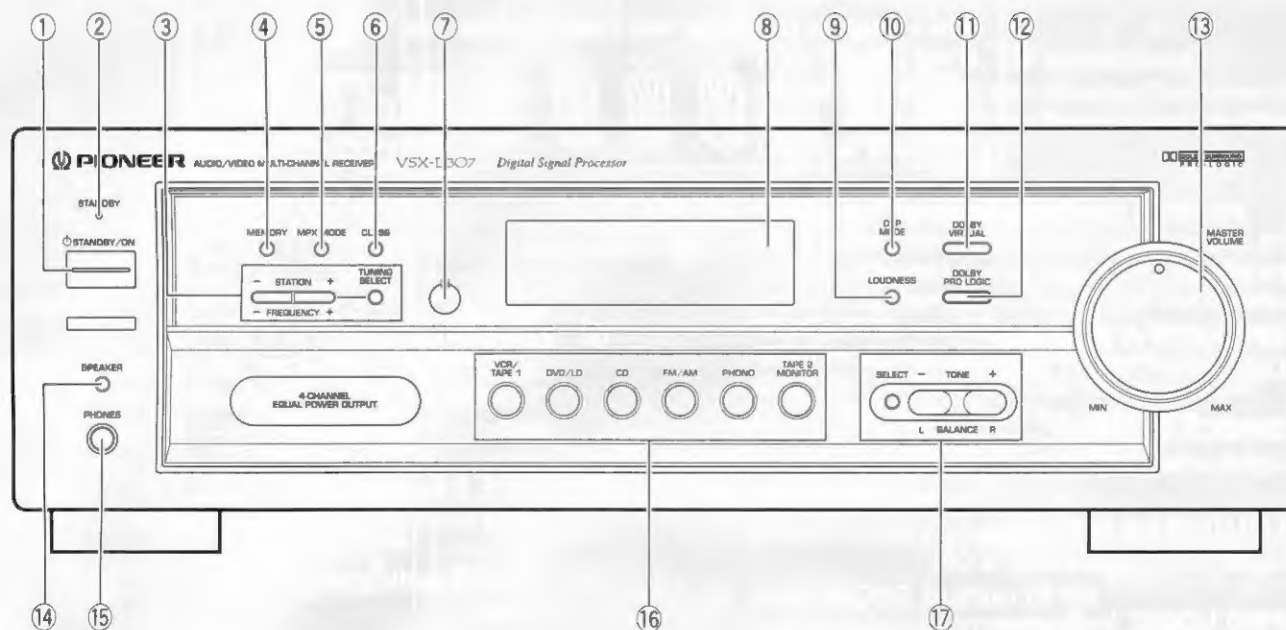


# 2. NAMES AND FUNCTIONS OF PARTS

## NAMES OF PARTS

### Front Panel

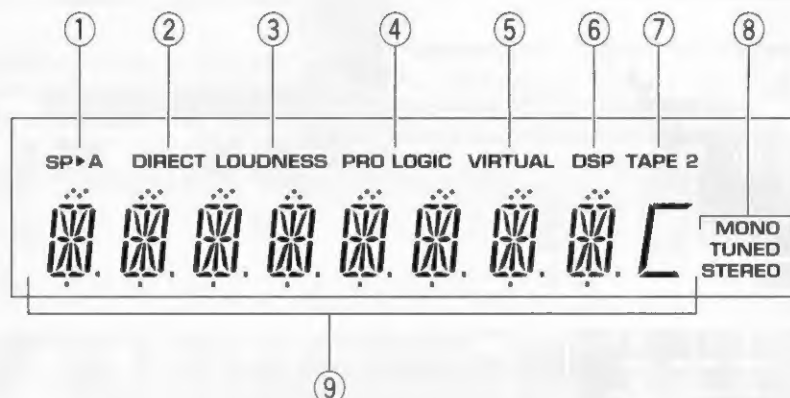
The size of characters in the figure may differ from that on the actual product.



- ① **STANDBY/ON button**
- ② **STANDBY indicator**
- ③ **TUNING SELECT, STATION(-, +), FREQUENCY (-, +) button**  
**TUNING SELECT:**  
 Use to select the STATION mode and FREQUENCY mode when operating the tuner.  
**STATION (-, +):**  
 Use to select the station number when operating the tuner.  
**FREQUENCY (-, +):**  
 Use to select the frequency when operating the tuner.
- ④ **MEMORY button**
- ⑤ **MPX MODE button**  
 Use to switch the auto stereo/monaural mode for receiving FM broadcasts.  
 When the received broadcast signal is weak, press this button to set the monaural mode.
- ⑥ **CLASS button (P.22)**
- ⑦ **Remote sensor**
- ⑧ **Display**
- ⑨ **LOUDNESS button**  
 Press this button when the volume is low to raise the low and high range levels so that the sound can be heard more easily.

- ⑩ **DSP MODE button (P.15)**
- ⑪ **DOLBY VIRTUAL button (P.19)**
- ⑫ **DOLBY PRO LOGIC button (P.14)**
- ⑬ **MASTER VOLUME**
- ⑭ **SPEAKER button**  
 Switches as follows with each press.  
 ➔ FRONT SPEAKER ON  
 ➔ FRONT SPEAKER OFF ➔
- ⑮ **PHONES jack (Headphone terminal)**
- ⑯ **Function buttons (P.21)**
- ⑰ **SELECT, TONE (-, +) and BALANCE (L, R) button**  
**SELECT:**  
 Use to select the TONE (TREBLE, BASS) and BALANCE control.  
 ➔ TREBLE control ➔ BASS control  
 ➔ BALANCE control ➔
- TONE (-, +):**  
 Use to adjust tone.
- BALANCE (L, R):**  
 Use to adjust volume balance.

## Display



① **SPEAKER A indicator**  
Lights when FRONT SPEAKER is ON.

② **DIRECT indicator**  
Lights when DIRECT is ON.

③ **LOUDNESS indicator**  
Lights when LOUDNESS is ON.

④ **PRO LOGIC indicator**  
Lights when Dolby Pro Logic is selected.

⑤ **VIRTUAL indicator**  
Lights when DOLBY VIRTUAL is selected.

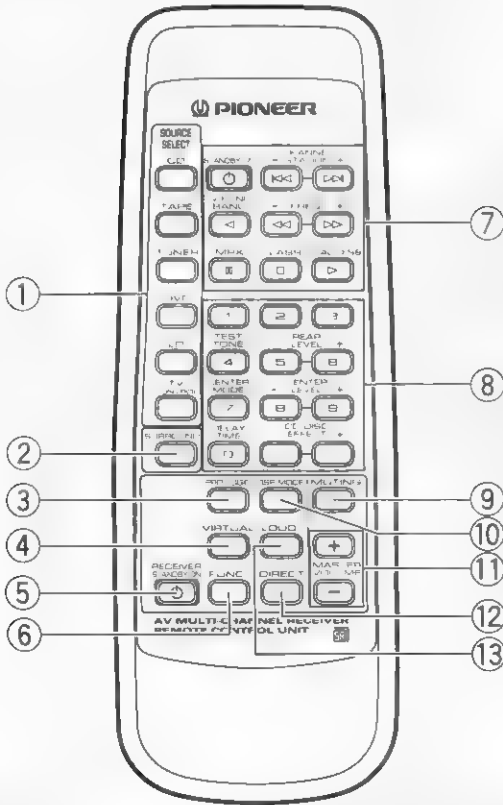
⑥ **DSP indicator**  
Lights when HALL, JAZZ, DANCE, THEATER 1 and THEATER 2 has been selected with the DSP MODE button.

⑦ **TAPE 2 indicator**  
Lights when TAPE 2 MONITOR is ON.

⑧ **TUNER indicator**  
**MONO:**  
Lights when the monaural mode is set using the MPX MODE button.  
**TUNED:**  
Lights when broadcasts are being received.  
**STEREO:**  
Lights when stereo broadcasts are received during auto stereo mode.

⑨ **CHARACTER display**

## REMOTE CONTROL UNIT



- ① **SOURCE SELECT function buttons (P.26)**  
When operating other devices, press any one of these buttons to specify the device to be operated.



This button cannot be used to switch the functions of this unit.

- ② **SURROUND button (P.16)**  
Press to start the SURROUND function.
- ③ **PRO LOGIC button (P.14)**  
Use to turn ON/OFF DOLBY PRO LOGIC.
- ④ **VIRTUAL button (P.19)**  
Use to change the mode of DOLBY VIRTUAL.
- ⑤ **RECEIVER STANDBY/ON button (P.20)**
- ⑥ **FUNC. (FUNCTION) button (P.20)**  
Use to switch the function setting of this unit.



- ⑦ **[TUNER operations]**  
STATION  $-$ ,  $+$ , BAND, FREQ.  $-$ ,  $+$ , MPX, CLASS, D.ACCESS buttons

- [TV operations]**  
STANDBY/ON, CHANNEL  $-$ ,  $+$ , TV FUNC., TV VOL.  $-$ ,  $+$ , buttons

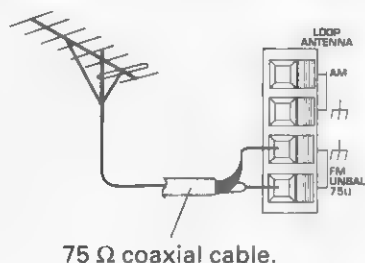
- [CD, TAPE, DVD, LD operations]**  
STANDBY/ON,  $\lll$ ,  $\ggg$  (Chapter/Track search),  $\blacktriangleleft$  (Play),  $\lll$  (Rewind),  $\ggg$  (Fast Forward),  $\parallel$  (Pause),  $\blacksquare$  (Stop),  $\blacktriangleright$  (Play)

- ⑧ **Number/Surround setting buttons**  
**TEST TONE:** When turned ON (while in DOLBY PRO LOGIC), volume balance adjustment signals are output in order from the speakers and can be adjusted.  
**REAR LEVEL  $-$ ,  $+$ :** Adjusts the rear level.  
**CENTER MODE:** Switches the center mode.  
**CENTER LEVEL  $-$ ,  $+$ :** Adjusts the center level.  
**DELAY TIME:** Use to set the delay time.  
**EFFECT  $-$ ,  $+$ :** Adjusts DSP effects.
- ⑨ **MUTING button**  
Press to mute the volume.
- ⑩ **DSP MODE button (P.15)**  
Use to switch the DSP mode.
- ⑪ **MASTER VOLUME  $-$ ,  $+$  button**  
Use to adjust the volume.

- ⑫ **DIRECT button**  
Use to playback sound without going through the tone and balance control circuits. DOLBY PRO LOGIC, DOLBY VIRTUAL, DSP MODE and LOUDNESS also turn off.
- ⑬ **LOUD.(LOUDNESS) button**  
When LOUDNESS is turned ON at a small volume, the low frequency and high frequency levels increase, enabling the sound to be easier to hear.

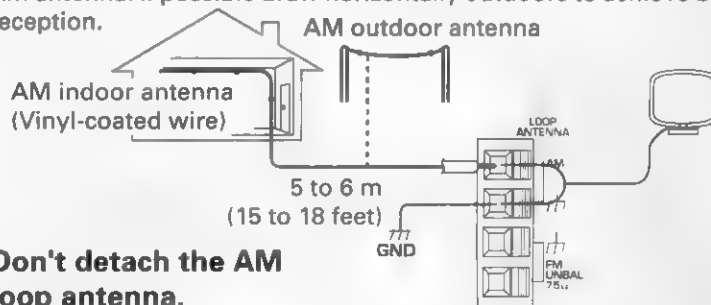
## CONNECTING DEVICES

- For better reception of signals, use the FM external antenna.



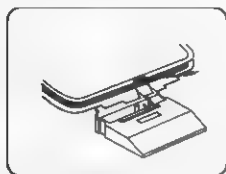
- When AM broadcast reception is poor

Connect a 5 to 6 meter (15 to 18 feet) long vinyl-coated wire to the AM antenna. If possible draw horizontally outdoors to achieve better reception.

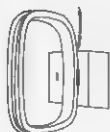
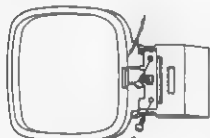


Don't detach the AM loop antenna.

- Assembling the AM loop antenna



- When attached on a wall, etc.



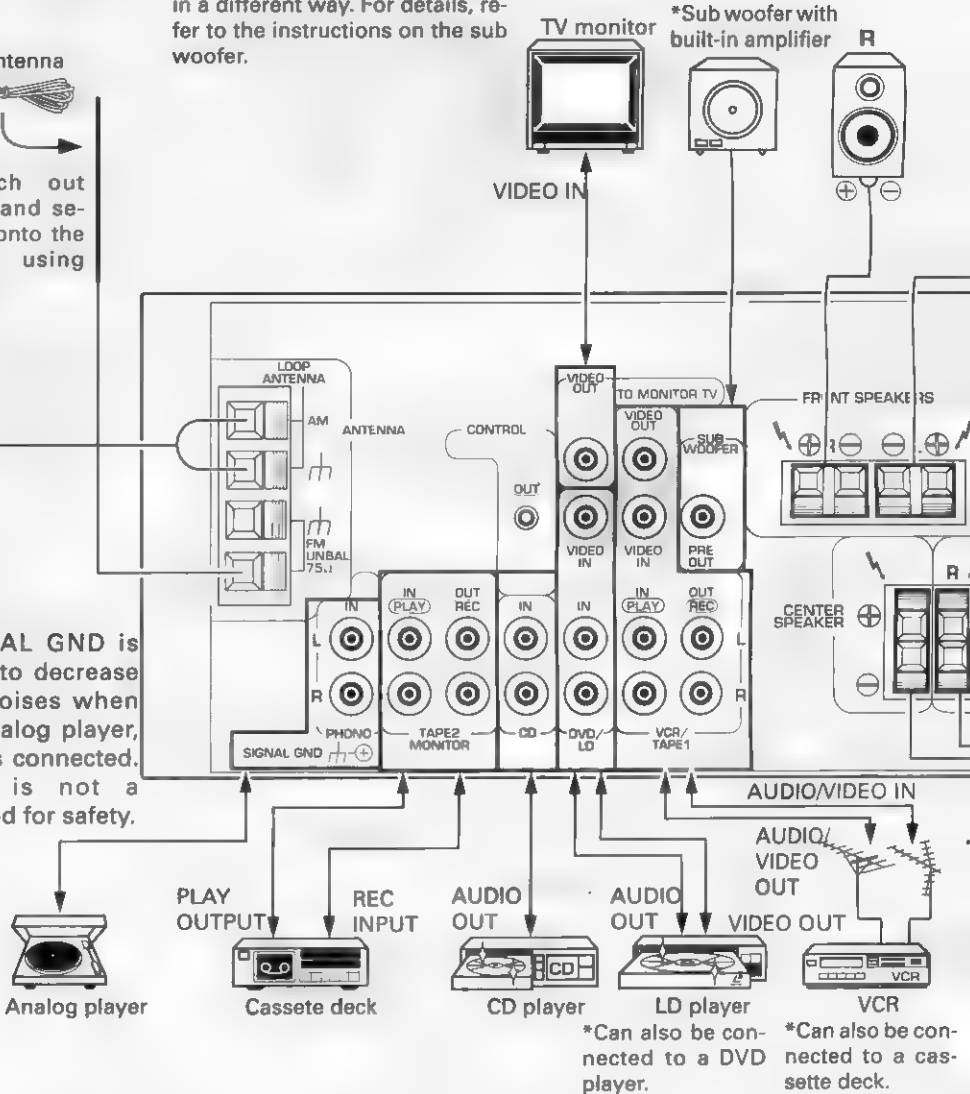
Face towards the direction with the best reception.

FM antenna

Stretch out fully and secure onto the wall using pins.

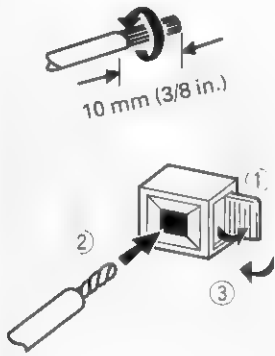
\* The sub woofer can be connected in a different way. For details, refer to the instructions on the sub woofer.

SIGNAL GND is used to decrease the noises when an analog player, etc. is connected. This is not a ground for safety.

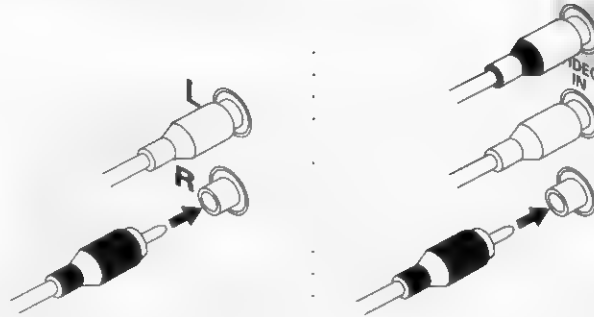




### ■ Antenna terminal

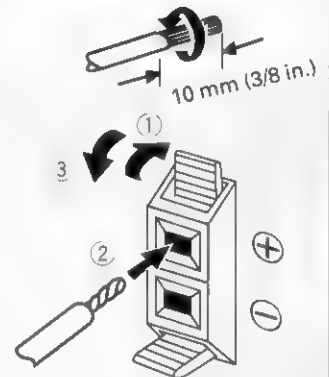


### ■ Input/output plug



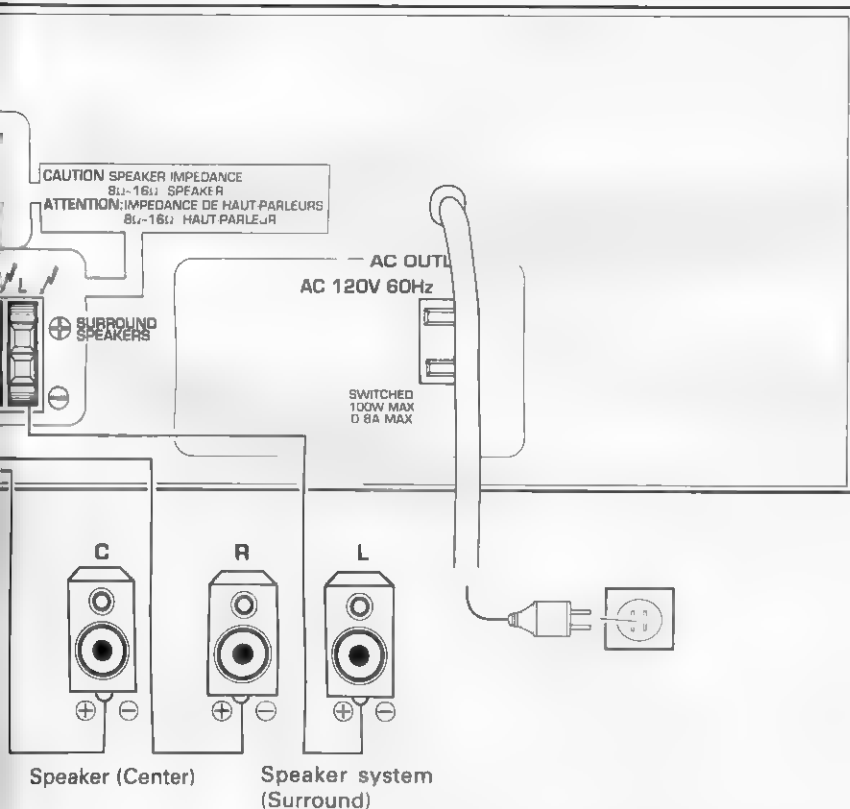
Connect the white plug to L, red plug to R, and yellow plug to VIDEO. Be sure to insert completely.

### ■ Speakers terminal



The size of characters and terminal positions in the figures may differ from those on the actual product.

Speaker system (Front)



### AC OUTLET [SWITCHED 100 W (0.8 A) MAX]

Power supplied through this outlet is turned on and off by the receiver's POWER switch.

Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).

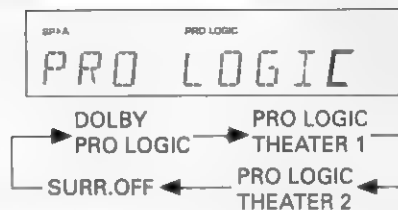
**Do not connect a heater, TV, etc.**

## ENJOYING SURROUND EFFECTS

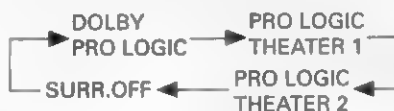
The diagram shows a rectangular remote control with rounded corners. At the top is the Pioneer logo and brand name. Below this is a grid of buttons organized into several sections:

- SOURCE SELECT**: A vertical column of four buttons labeled CC, STATION, \*SKIP, and TV.
- MAIN CONTROLS**: A central grid of buttons including:
  - STATION (power icon), PAUSE (two vertical bars), and F.F. (fast forward).
  - REVERSE (left arrow), STILL (square), and STILL (square).
  - PLAY (right arrow), EJECT (upward arrow), and STILL (square).
  - NUMERICAL KEYS: 1, 2, 3, 4, 5, 6, 7, 8, 9.
  - FUNCTION KEYS: TEST TONE, HEAD EJECT, CE-TEXT MODE, ENTER EJECT, DELAY TIME, CE-TEXT EFFECT.
- SUBTITLES**: A button labeled SUBTITLES.
- RECEIVER FUNCTIONS**: A bottom section with buttons for:
  - RECEIVER STATION (power icon).
  - REPEAT, LOUD, and MUTE.
  - RECEIVER FUNCTION, FINE, DIRECT, and MASTER VOLUME.

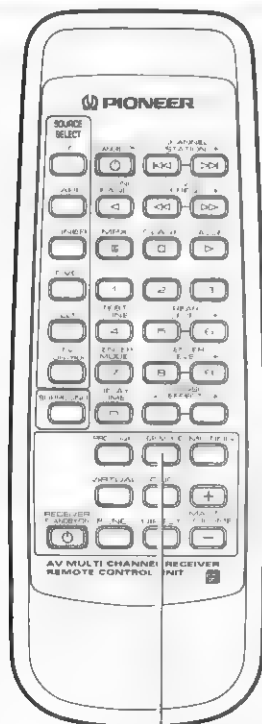
At the bottom of the remote, it is labeled "AV MULTI-CHANNEL RECEIVER REMOTE CONTROL UNIT" with a small icon of a television set.



Each time it is pressed, the mode changes as follows.



## Switching the sound effects (DSP MODE)

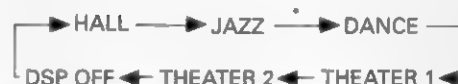


DSP MODE

Select the sound effects.

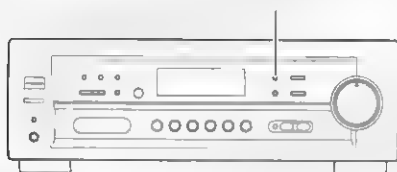


Refer to page 29 for the characteristics of the surround effects.



3  
SURROUND

DSP MODE



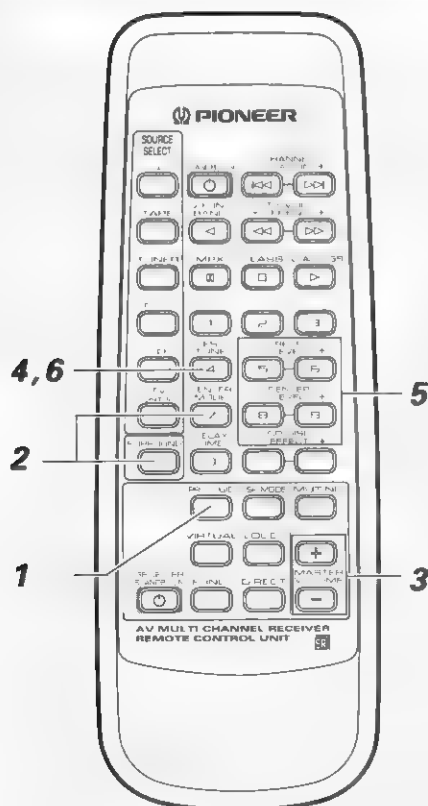
### ■ Operating with the main unit

Press the DSP MODE button.

Each time it is pressed, the surround effects change as follows.



## Enjoying Movie and Music sources in surround mode

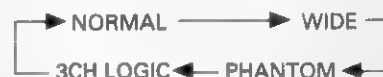


1. Select Dolby Pro Logic.



2. Select the center mode.

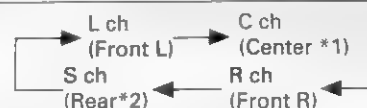
Before operating, press the SURROUND button. Refer to page 28 for the characteristics of the center modes.



3. Adjust to the desired volume.

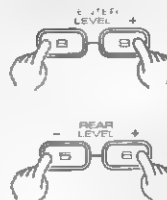


4. Set the test tone.



5. Adjust the center level and rear level so that the test tone volume output from each speaker is the same.

The BALANCE L,R buttons of this unit can be used to adjust the FRONT balance.



6. Turn OFF the test tone.



7. Play the desired source.



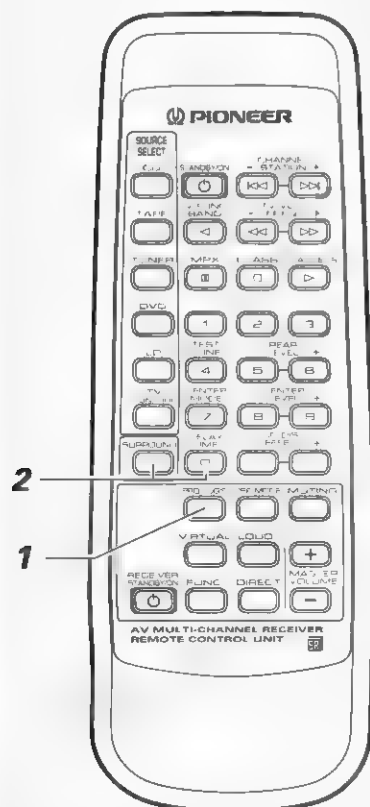
- The TEST TONE signal will be output in the PRO LOGIC, PRO LOGIC THEATER 1, PRO LOGIC THEATER 2 mode.
- The center level and rear level are the same in the PRO LOGIC, PRO LOGIC THEATER 1, PRO LOGIC THEATER 2 modes.
- The TEST TONE signal will not be output in the DSP mode, but the center and rear levels can be adjusted.
- The center and rear levels can also be adjusted in the DSP mode. In this case, the center and rear levels for HALL, JAZZ, DANCE, THEATER 1, THEATER 2 will be the same.



## Setting the Delay Time

As the SURROUND speaker is normally placed near the listening position, it is nearer to the listening position than the FRONT speaker. Subsequently, since the sounds from the SURROUND speaker will be heard quicker than those from the FRONT speaker, set the delay time for the sounds from the SURROUND speaker so that the SURROUND and FRONT speakers are virtually the same distance from the listening position.

(Set about 1 to 1.5 m for each step.)



### 1. Select DOLBY PRO LOGIC.



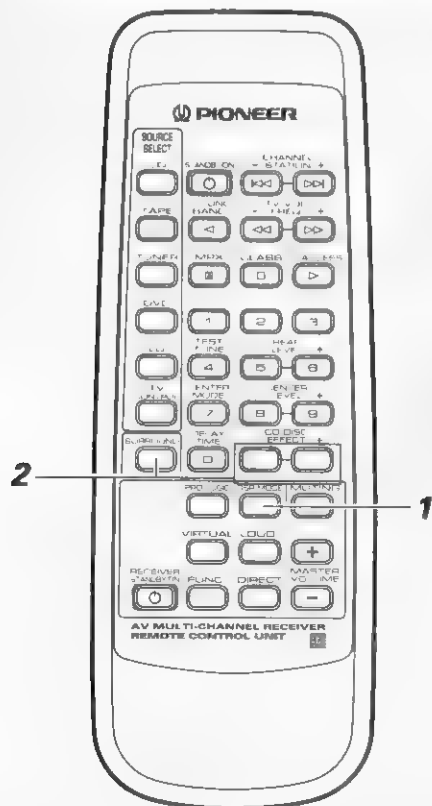
### 2. Set the delay time.



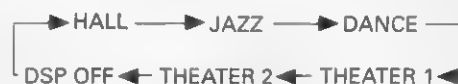
- First set to 20 ms.
- Initially the distance from the listening position to the SURROUND speaker will be set shorter than that from to the FRONT speaker.
- The delay time is valid during DOLBY PRO LOGIC.
- When 3CH LOGIC is selected in the center mode, the delay time cannot be set.

## Setting the EFFECT Level

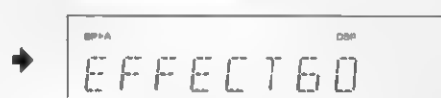
Surround effects can be changed by adjusting the EFFECT level in the DSP mode.



**1. Select the DSP mode.**



**2. Adjust the EFFECT level.**



Can be adjusted between 10 and 90.

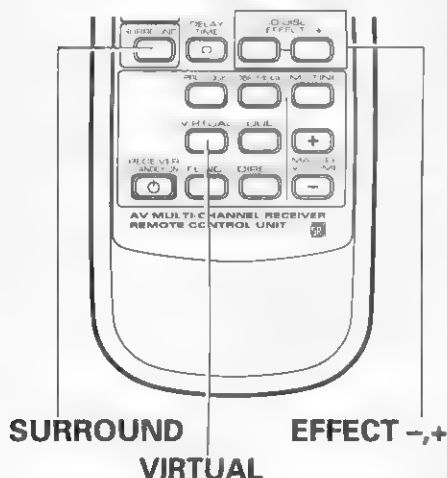


- The initial value is 60.
- The EFFECT level can also be adjusted in the PRO LOGIC THEATER 1, PRO LOGIC THEATER 2.
- The EFFECT level can be set independently in each mode.

## Switching the DOLBY VIRTUAL

This unit is equipped with a DOLBY VIRTUAL function which realizes virtual surround effects using two FRONT speakers in addition to DOLBY PRO LOGIC and DSP modes.

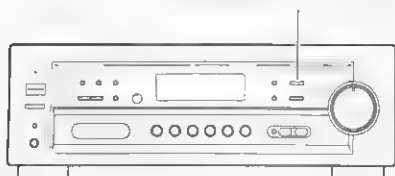
Actually the sounds are output only from the two FRONT speakers, however it would seem as if sounds are also being produced from the back.



**Select DOLBY VIRTUAL.**  
DOLBY VIRTUAL will turn ON and OFF each time this button is pressed.



### DOLBY VIRTUAL ■ Operating with the main unit



**Press the DOLBY VIRTUAL button.**  
DOLBY VIRTUAL will turn ON and OFF each time this button is pressed.

The virtual surround level can be adjusted as desired.

**Adjust the virtual surround level.**



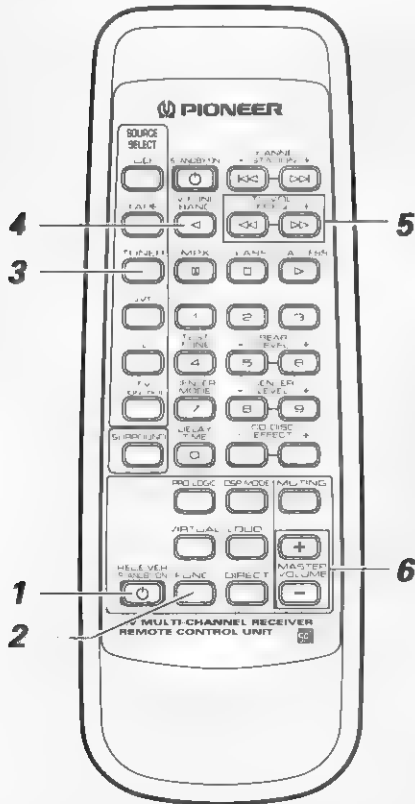
Can be adjusted between 30 and 90.



- The initial value of EFFECT LEVEL is 60.
- The DOLBY VIRTUAL effects differ considerably according to the source played back. Use it to play back music and movie discs encoded by DOLBY PRO LOGIC.
- The DOLBY VIRTUAL effects differ considerably according to the listening position. (See P.29)

# 4. OPERATIONS

## LISTENING TO FM/AM BROADCASTS



- 1. Turn ON the power of the receiver.**



→ **STANDBY** indicator goes off.



- 2. Set the TUNER function.**



- 3. Select the TUNER operations.**



- 4. Select the BAND. (FM or AM)**



- 5. Select the broadcast station.**



→ Refer to "Selecting broadcast station" below.

- 6. Adjust the volume.**



### Selecting broadcast stations

(For example, when selecting an FM broadcast)

- ① Selecting step by step.



Press lightly and release.

↓  
87.50  
87.60  
87.70  
⋮

- ② Selecting automatically.



(Press and hold for approx. 1 second, then release)

↓  
87.50  
↓  
89.50

Stops when received.

- ③ Selecting at high speed.



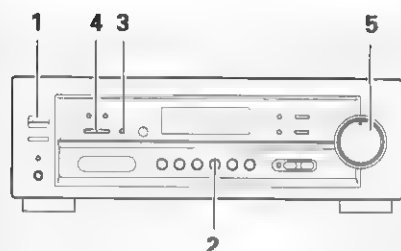
Press continuously

↓  
87.50  
87.60  
⋮  
89.50

↓ Stops when released.

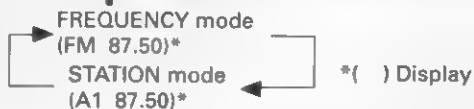






## ■ Selecting a broadcast station using the main unit

1. Press the STANDBY/ON button.
2. Press the FM/AM button and select an FM or AM broadcast.
3. Press the TUNING SELECT button to set the frequency mode.

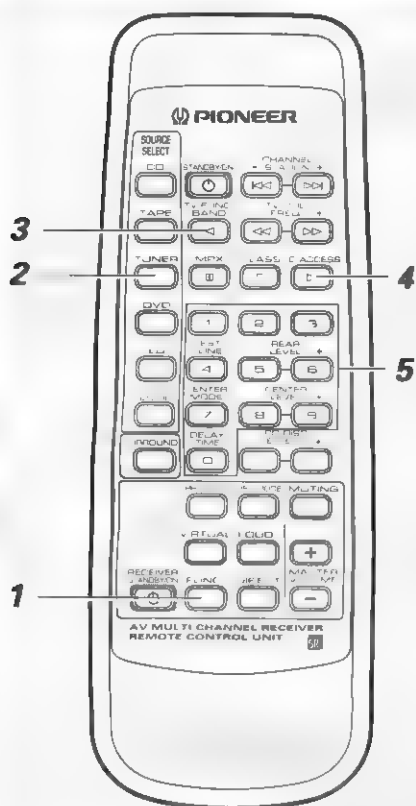


4. Press the FREQUENCY  $\pm$  button and select the broadcast station.  
The TUNED indicator lights when broadcast is received.
5. Adjust the volume.



The TUNED indicator will not light when a broadcast station is too far away or when the broadcasting signal is weak.

## Directly inputting the frequency [Direct Access (remote control unit only)]



1. Set the TUNER function.



2. Select the TUNER operations.



3. Select the BAND (FM or AM).



4. Set the direct access mode.



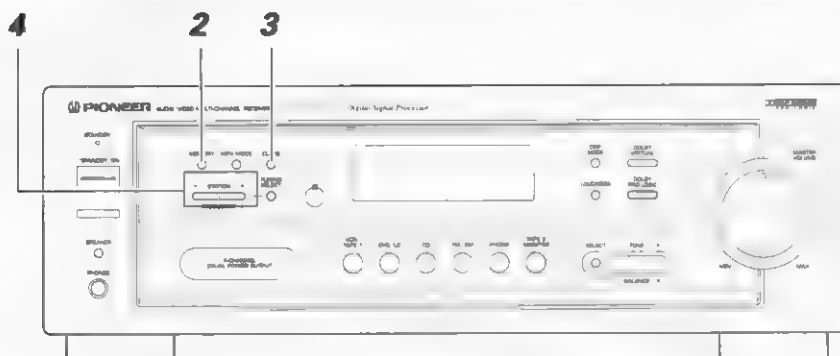
5. Select the broadcast station.  
Press the numbers of the frequency to be received in order.



## ■ Canceling the frequency input

The frequency input can be canceled by pressing the D.ACCESS button again. Input the frequency again correctly.

## Memorizing Desired Stations (Main unit only)



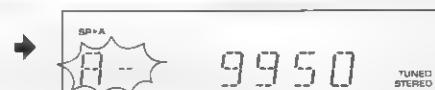
- The frequency received and MPX MODE (FM only) can be memorized.
- Up to 10 stations can be memorized in each of three classes.

### 1. Receive the desired station.

➔ Refer to "LISTENING TO FM/AM BROADCASTS" (P.20, 21).

### 2. Set the MEMORY mode.

MEMORY

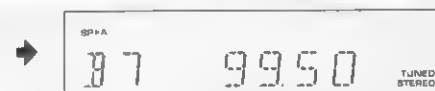


### 3. Select the desired class number.

CLASS



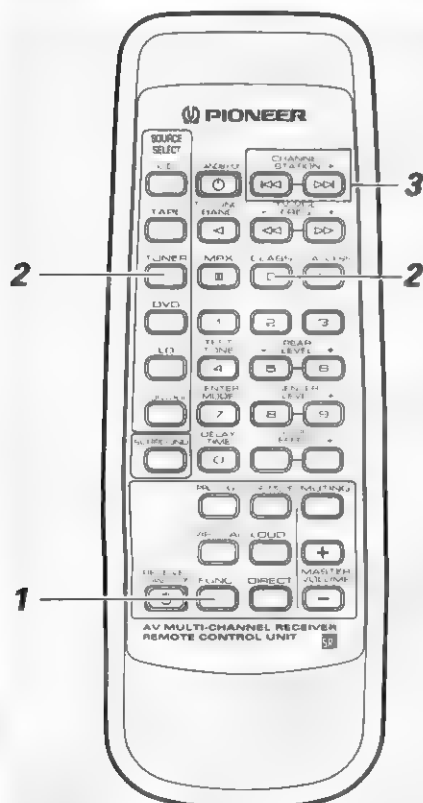
### 4. Select the desired station number.



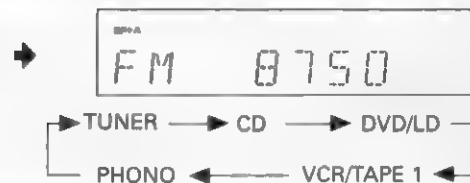
The selection will be memorized in the specified station number 5 seconds later. Pressing the MEMORY button within 5 seconds will exit the MEMORY mode.

Repeat steps 1 to 4 to memorize up to 30 stations.

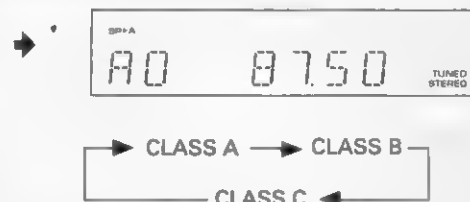
## Listening to Memorized Stations



1. Set the TUNER function.



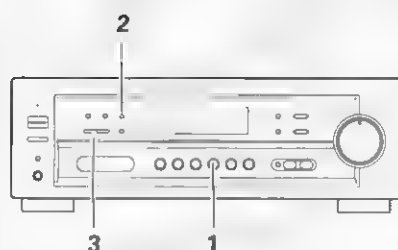
2. Select the CLASS number in which the desired station is memorized.  
(Before operating, press the TUNER button of the remote control unit.)



3. Select the station number of the desired station.  
Can also be called with the number button.



**Example:**  
When FM99.50 MHz has been memorized in channel 7 of CLASS B.



### Operating with the main unit

1. Press the FM/AM button.
2. Press the CLASS button, and select the CLASS number in which the desired station has been memorized.
3. Press the STATION -, + button, and select the desired station number which has been memorized.



- When the power cord of the unit is disconnected from the wall outlet for several days, the stations memorized will be erased.
- When selecting the station number with the STATION -, + buttons, the stations will switch as follows.



### Last Station Memory

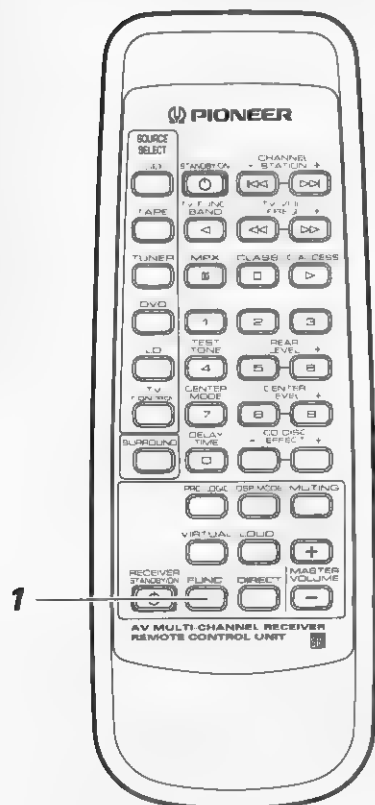
By turning ON the power and setting TUNER, the station set before the power was turned OFF will be received.

## RECORDING

### Recording with TAPE 1 or TAPE 2



- Turn OFF TAPE 2 MONITOR when recording with TAPE 1.
- Turn ON the power of all equipment to be used.



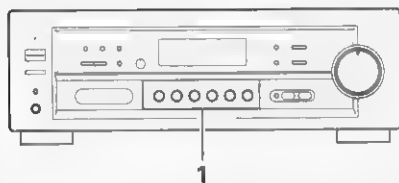
1. Select the source to be recorded.



2. Start recording with TAPE 1 or TAPE 2.

3. Play back the source to be recorded.

### ■ Operating with the main unit



1. Select the source to be recorded using the Function button.
2. Start recording with TAPE 1 or TAPE 2.
3. Play back the source to be recorded.



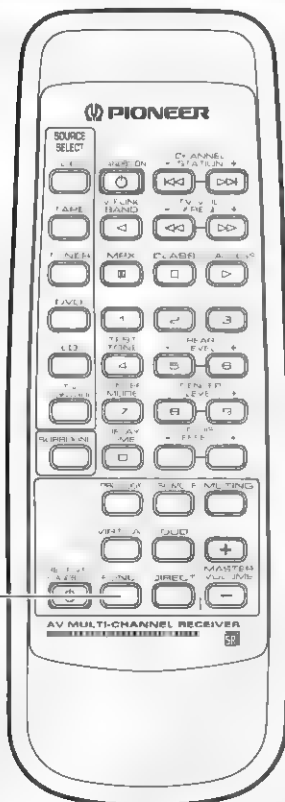
- The VCR/TAPE 1 sounds cannot be recorded with TAPE 1.
- The volume, tone, balance and surround setting of this unit have no effect on the recording signal.
- The TAPE 2 sounds cannot be recorded.

### ■ Recording Monitor

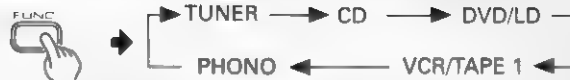
When recording with TAPE 2, if the recording device connected has a recording monitor function, turning ON the TAPE 2 MONITOR button will enable recording to be carried out simultaneously with playback monitoring (the TAPE 2 indicator lights).



## Recording with a VCR



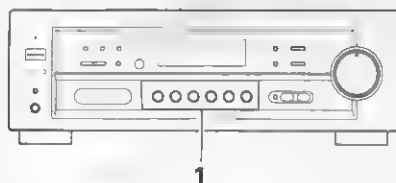
1. Select the source to be recorded.



2. Start recording with a VCR.

3. Play back the source to be recorded.

1



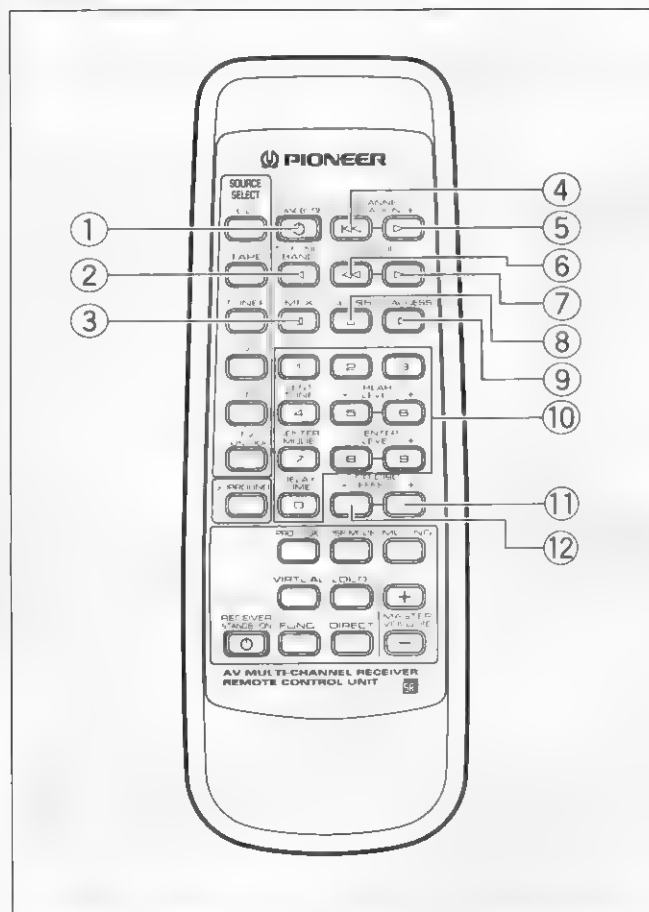
### ■ Operating with the main unit

1. Select the source to be recorded using the Function button.
2. Start recording with VCR.
3. Play back the source to be recorded.



- The signal from VCR/TAPE 1 cannot be recorded.
- The volume, tone, balance, and surround setting of this unit have no effect during recording signal.

## 5. OPERATIONS OF OTHER PIONEER EQUIPMENTS



### DVD PLAYER operation

Press the DVD button in the SOURCE SELECT area, and operate as desired using the following buttons.

- ① **(power) STANDBY/ON**  
Use to turn STANDBY/ON the DVD player.
- ③ **II**  
Use to pause. (In some players, pressing this button may set still pictures.)
- ④ **◀◀**  
Pressing and releasing this button immediately returns playback to the beginning of the chapter (track) currently being played. Pressing it continuously returns playback to the beginning of a previous chapter (track).
- ⑤ **▶▶**  
Pressing and releasing this button immediately advances playback to the beginning of the next chapter (track). Pressing it continuously advances playback to the beginning of a future chapter (track).
- ⑥ **◀◀**  
Continuously pressing this button will start fast rewind playback.
- ⑦ **▶▶**  
Continuously pressing this button will start fast forward playback.

- ⑧ **■**  
Pressing this button during playback will stop the unit.
- ⑨ **▶**  
Starts playback.

### LD PLAYER operation

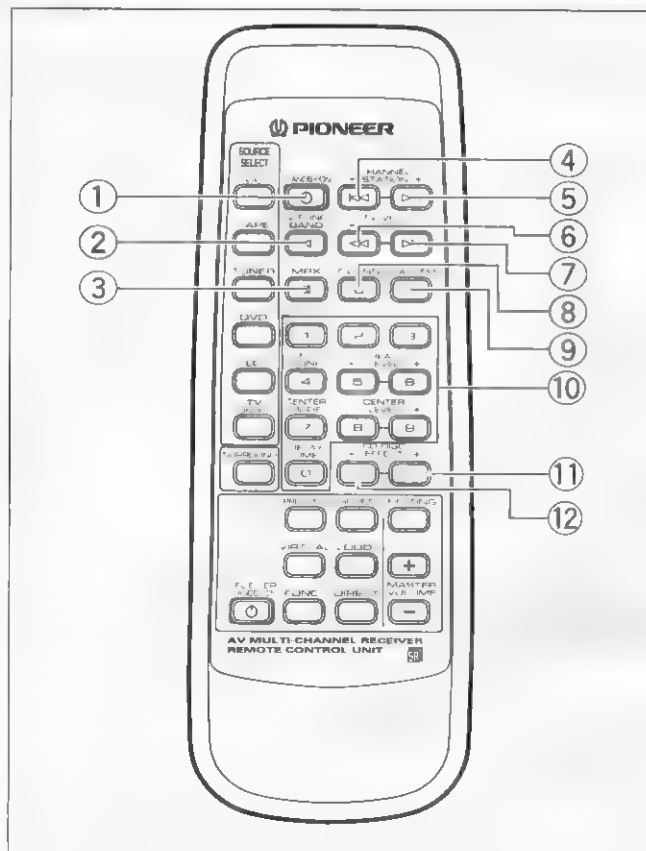
Press the LD button in the SOURCE SELECT area, and operate as desired using the following buttons.

- ① **(power) STANDBY/ON**  
Use to turn STANDBY/ON the LD player.
- ③ **II**  
Use to pause. (In some players, pressing this button may set still pictures.)
- ④ **◀◀**  
Pressing and releasing this button immediately returns playback to the beginning of the chapter (track) currently being played. Pressing it continuously returns playback to the beginning of a previous chapter (track).
- ⑤ **▶▶**  
Pressing and releasing this button immediately advances playback to the beginning of the next chapter (track). Pressing it continuously advances playback to the beginning of a future chapter (track).
- ⑥ **◀◀**  
Continuously pressing this button will start fast rewind playback.
- ⑦ **▶▶**  
Continuously pressing this button will start fast forward playback.
- ⑧ **■**  
Pressing this button during playback will stop the unit. (With some LD players, the disc table may come out if pressed during stop.)
- ⑨ **▶**  
Starts playback.
- ⑪ **CD DISC + (SIDE A/B)**  
Switches between side A and B of the disc.

### CD PLAYER operation

Press the CD button in the SOURCE SELECT area, and operate as desired using the following buttons.

- ① **(power) STANDBY/ON**  
Use to turn STANDBY/ON the CD player.
- ③ **II**  
Use to pause playback.
- ④ **◀◀**  
Pressing and releasing this button immediately returns playback to the beginning of the track currently being played. Pressing it continuously returns playback to the beginning of a previous track.
- ⑤ **▶▶**  
Pressing and releasing this button immediately advances playback to the beginning of the next track. Pressing it continuously advances playback to the beginning of a future track.



- ⑥ ◀◀  
Continuously pressing this button will start fast rewind playback.  
Stops playback.
- ⑦ ▶▶  
Pressing this button continuously will start fast forward playback.
- ⑧ ■  
Stops playback.
- ⑨ ▶  
Starts playback.
- ⑪, ⑫ CD DISC -, +  
Use to select the disc for CD players which can play several discs.

## CASSETTE DECK operation

Press the TAPE button in the SOURCE SELECT area, and operate as desired using the following buttons.

- ① ⏻ (power) **STANDBY/ON**  
Use to turn STANDBY/ON the cassette deck.  
(Cannot turn STANDBY/ON some cassette decks.)
- ② ▶  
Plays in the direction of the arrow.
- ③ ||  
Pauses playback and recording.

- ⑥ ◀◀  
Rewinds the tape. Pressing this button during playback will start fast rewind playback.
- ⑦ ▶▶  
Fast forwards the tape. Pressing this button during playback will start fast forward playback.
- ⑧ ■  
Stops tape running.
- ⑨ ▶  
Plays in the direction of the arrow.



- When operating a double cassette deck, the deck II must be operated.
- For double cassette decks, the ⑩ Number buttons can be used to operate deck 1 also.  
(Some models cannot be operated.)

- ⑩ CENTER MODE 7 (◀)  
Plays in the direction of the arrow.
- ⑩ 8 (◀◀)  
Fast rewinds the tape in the direction of the arrow.
- ⑩ 9 (▶▶)  
Fast forwards the tape in the direction of the arrow.
- ⑩ DELAY TIME 0 (||)  
Pauses playback.
- ⑪ 10 (▶)  
Plays in the direction of the arrow.
- ⑫ 11 (■)  
Stops tape running.

## TV operation


Press the TV CONTROL button in the SOURCE SELECT area, and operate as desired using the following buttons.

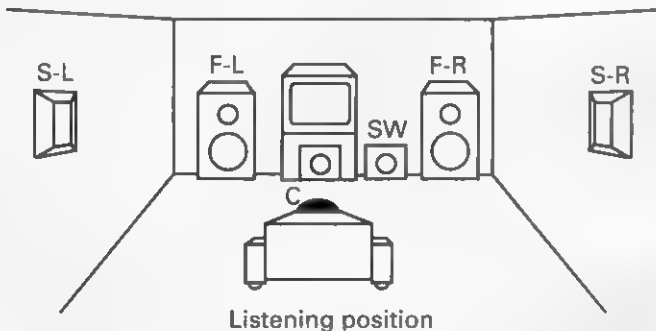
- ① ⏻ (power) **STANDBY/ON**  
Use to turn STANDBY/ON the TV.
- ② TV FUNC.  
Use to select the TV input.
- ④, ⑤ **CHANNEL -, +**  
Use to select a TV broadcast channel.
- ⑥, ⑦ **TV VOL. -, +**  
Use to adjust the TV volume.

# 6. OTHER

## SURROUND

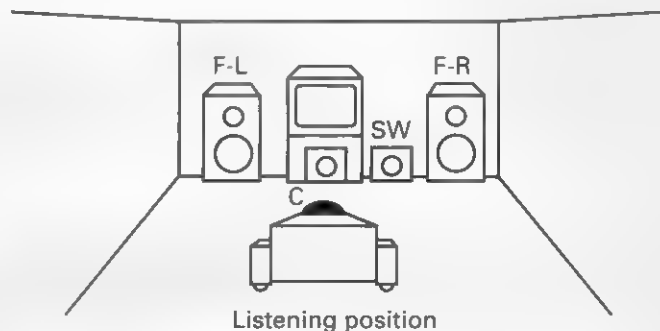
### Dolby Pro Logic Surround

Set to this position for video and music sources (especially sources bearing the  (DOLBY SURROUND) marks). Dolby Pro Logic Surround continuously detects the size and direction of signals. As a result, the position of the sound source becomes clear, enabling reproduction of natural sound flow.



### Dolby 3CH Logic

Same system as the Dolby Pro Logic Surround except that SURROUND speakers are not installed. SURROUND speaker signals are played back by the FRONT speakers, enabling better reproduction of surround effects and depth than with normal stereo playback.



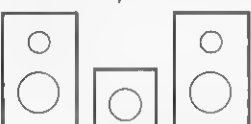






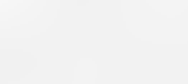
\* In the above figure, F stands for front speakers, S for surround speakers, C for center speaker, SW for sub woofer, R for right, and L for left.

Manufactured under license from Dolby Laboratories. "Dolby" the double-D symbol and "Pro Logic" are trademarks of Dolby Laboratories.

### ■ Selecting the center mode

When Dolby Pro Logic is ON, pressing the CENTER MODE button will switch the mode as follows.



NORMAL	WIDE	PHANTOM	3ch LOGIC
Plays back middle and high range sounds from the CENTER speaker. Sounds are at the fixed position. The bass from the center channel is played back by the FRONT speakers.	Using the same speakers as the FRONT speakers for the CENTER speaker enables sounds from bass to treble to be played back more naturally.	The center channel sounds are played back between the L and R FRONT speakers.	The surround channel sounds and center channel bass sounds are played back between the L and R FRONT speakers.
			
			

## ■ DSP mode

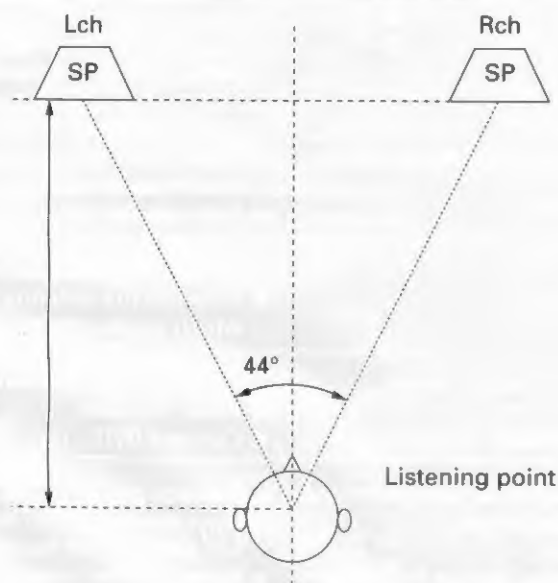
<b>HALL</b>	Simulates the acoustic effects of a concert hall. Suitable for classical music. Long delay time of reflected sounds, coupled with reverberation effects let the listener enjoy the dynamic and beautiful sounds characteristic of concert halls and powerful orchestral performances.
<b>JAZZ</b>	Simulates the acoustic effects of general jazz clubs. Reflected sound is virtually below 60 ms, for the listener to enjoy live-band effects.
<b>DANCE</b>	Simulates the acoustic effects of discos with a square dance floor. Features strong bass sound. Reflected sound delay time is virtually below 15 ms, for the listener to enjoy the "fever" of disco sounds.
<b>THEATER 1</b>	Sets the delay time of the reflected sound best suited for playing back acoustic parameters of a medium-sized movie theater in your living room.
<b>THEATER 2</b>	Reproduces theater sound field effects without losing the localization of each channel. Theater effects can be enjoyed without losing Dolby Pro Logic effects when used in combination.



- THEATER 1 and THEATER 2 can be used together with DOLBY PRO LOGIC.
- EFFECT level: The level of the surround effects can be changed.  
For DSP: 10 to 90 (Initially set to 60)  
For Virtual: 30 to 90 (Initially set to 60)

## ■ Virtual Surround

<b>VIRTUAL</b>	Allows you to use only two front speakers (L and R) to enjoy sources recorded in Dolby Surround (possessing the  DOLBY SURROUND mark).
----------------	--



### Virtual surround listening point

The distance from this point to the speakers is about 1.2 times the distance between the speakers.

## TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Cause	Remedy
The power does not turn ON.	<ul style="list-style-type: none"> <li>● The power plug is disconnected from the outlet.</li> <li>● The cause may lie in the protection circuit.</li> </ul>	<ul style="list-style-type: none"> <li>● Insert into the wall outlet.</li> <li>● Disconnect the power plug from the outlet, and insert again.</li> <li>● Connect the speaker cords again. (P.12,13)</li> </ul>
The unit does not work even when the buttons are pressed.	<ul style="list-style-type: none"> <li>● Due to effects of static electricity when the air is dry.</li> </ul>	<ul style="list-style-type: none"> <li>● Disconnect the power plug from the outlet, and insert again.</li> </ul>
No sound is output when a function is set.	<ul style="list-style-type: none"> <li>● Not properly connected.</li> <li>● Sound is muted.</li> <li>● The volume is turned down.</li> <li>● The TAPE 2 MONITOR is ON.</li> <li>● The speaker switch is OFF.</li> </ul>	<ul style="list-style-type: none"> <li>● Refer to pages 12 to 13 and connect again.</li> <li>● Press the MUTING button on the remote control unit.</li> <li>● Adjust MASTER VOLUME.</li> <li>● Press the TAPE 2 MONITOR button.</li> <li>● Press the SPEAKER button.</li> </ul>
No image is output when a function is set.	<ul style="list-style-type: none"> <li>● Not properly connected.</li> <li>● The input source is not properly selected.</li> </ul>	<ul style="list-style-type: none"> <li>● Refer to pages 12 to 13, and connect again.</li> <li>● Press the correct button.</li> </ul>
Considerable noise in radio broadcasts.	<ul style="list-style-type: none"> <li>● Not received at proper frequency.</li> <li>● The antenna is not connected.</li> </ul> <p>[FM broadcast reception]</p> <ul style="list-style-type: none"> <li>● The FM antenna is not stretched out, and faces an inappropriate direction.</li> <li>● Weak radio waves.</li> </ul> <p>[AM broadcast reception]</p> <ul style="list-style-type: none"> <li>● The AM antenna faces inappropriate direction.</li> <li>● Weak radio waves.</li> <li>● Affected by other equipment. (Fluorescent lamp, motor, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>● Receive the correct frequency.</li> <li>● Connect the antenna properly. (P.12,13)</li> <li>● Stretch out the antenna and secure it to a wall while selecting the direction and position with the best reception state.</li> <li>● Change the FM antenna to an outdoor antenna of multiple elements. (P.12)</li> <li>● Select the direction and position with the best reception state.</li> <li>● Connect the AM outdoor antenna.(P.12)</li> <li>● Turn off the equipment which cause noise or move them away from the unit.</li> <li>● Distance the antenna from the equipment which cause noise.</li> </ul>
No sound from surround or center speaker.	<ul style="list-style-type: none"> <li>● Surround or center level is turned down.</li> <li>● The surround or center speaker is disconnected.</li> </ul>	<ul style="list-style-type: none"> <li>● Select the correct center mode. (P.16)</li> <li>● Raise the level. (P.16)</li> <li>● Connect (P.12, 13)</li> </ul>
Cannot be remote controlled.	<ul style="list-style-type: none"> <li>● The remote control unit batteries have worn out.</li> <li>● Too great of a distance. Bad angle.</li> <li>● There is an obstacle blocking signals in between.</li> <li>● Strong light such as fluorescent light is shining onto the unit's remote sensor.</li> </ul>	<ul style="list-style-type: none"> <li>● Replace the batteries. (P.7)</li> <li>● Operate within 7m and 30 deg. from the left and right of the remote sensor.</li> <li>● Remove the obstacle or operate from somewhere else.</li> <li>● Avoid direct exposure of the remote sensor to the light.</li> </ul>

If the unit does not operate normally due to external effects such as static electricity, disconnect the power plug from the outlet and insert again to return to the normal operating conditions.



## SPECIFICATIONS

### Amplifier section

**Continuous average power output of 100 watts\* per channel, min., at 8 ohms, from 40 Hz to 20,000 Hz with no more than 0.9 %\*\* total harmonic distortion (front).**

#### Continuous Power Output

Front .....	100 W + 100 W (1kHz, 0.9 %, 8 $\Omega$ )
Center .....	100 W (1kHz, 0.9 %, 8 $\Omega$ )
Surround .....	100 W (1kHz, 0.9 %, 8 $\Omega$ )

#### Input (Sensitivity/Impedance)

PHONO MM .....	2.8 mV/47 k $\Omega$
CD, VCR/TAPE 1, TAPE 2, DVD/LD .....	200 mV/47 k $\Omega$

#### Phono Overload level (T.H.D. 0.1 %, 1kHz)

PHONO MM .....	100 mV
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#### Frequency Response

PHONO MM .....	20 Hz to 20,000 Hz $\pm$ 0.3 dB
CD, VCR/TAPE 1, TAPE 2, DVD/LD .....	5 Hz to 100,000 Hz $\pm$ 0.3 dB

#### Output (Level/Impedance)

VCR/TAPE 1 REC, TAPE 2 REC .....	200 mV/2.2 k $\Omega$
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#### Tone Control

BASS .....	$\pm$ 8 dB (150 Hz)
TREBLE .....	$\pm$ 8 dB (10 kHz)
LOUDNESS .....	+ 8 dB/+ 6 dB (100 Hz/10 kHz)

#### Signal-to-Noise Ratio (IHF, short circuited, A network)

PHONO MM .....	72 dB
CD, VCR/TAPE 1, TAPE 2, DVD/LD .....	96 dB

#### Signal-to Noise Ratio [EIA, at 1 W (1 kHz)]

PHONO MM .....	75 dB
CD, VCR/TAPE 1, TAPE 2, DVD/LD .....	79 dB

\* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier.

\*\* Measured by Audio Spectrum Analyzer.

### VIDEO Section

#### Input (Sensitivity/Impedance)

VCR, DVD/LD .....	1 Vp-p/75 $\Omega$
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#### Output (Level/Impedance)

VCR .....	1 Vp-p/75 $\Omega$
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#### Frequency Response

VCR, DVD/LD $\rightarrow$ MONITOR .....	5 Hz to 7 MHz $\pm$ 0.3 dB
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#### Signal-to-Noise Ratio .....

55 dB
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#### Cross Talk .....

55 dB
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### FM Tuner Section

Frequency Range .....	87.5 MHz to 108 MHz
Usable Sensitivity .....	Mono: 13.2 dBf, IHF (1.3 $\mu$ V/75 $\Omega$ )
50 dB Quieting Sensitivity .....	Mono: 20.2 dBf
.....	Stereo: 38.6 dBf
Signal-to-Noise Ratio .....	Mono: 73 dB (at 85 dBf)
.....	Stereo: 70 dB (at 85 dBf)
Distortion .....	Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity .....	60 dB (400 kHz)
Stereo Separation .....	40 dB (1 kHz)
Frequency Response .....	30 Hz to 15 kHz ( $\pm$ 1) dB
Antenna Input .....	75 $\Omega$ unbalanced

### AM Tuner Section

Frequency Range .....	530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna) .....	350 $\mu$ V/m
Selectivity .....	25 dB
Signal-to-Noise Ratio .....	50 dB
Antenna .....	Loop antenna

### Miscellaneous

Power Requirements .....	AC 120 V, 60 Hz
Power Consumption .....	210 W
In Standby Condition .....	5 W
AC Outlet	
SWITCHED .....	100 W (0.8 A) MAX
Dimensions .....	420 (W) $\times$ 143 (H) $\times$ 325 (D) mm
.....	16-9/16 (W) $\times$ 5-5/8 (H) $\times$ 12-13/16 (D) in
Weight (without package) .....	7.4 kg (16 lb 5 oz)

### Furnished Parts

FM Antenna .....	1
AM Loop Antenna .....	1
Dry Cell Batteries	
[size "AA" (IEC R6P)] .....	2
Remote Control Unit .....	1
Operating Instructions .....	1

- The remote control unit and dry cell battery are not provided with VSX-D307-HT.

#### NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.

### MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzene, insecticide sprays or other chemicals on or near this unit, since these will corrode surfaces.





## Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion-and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level **BEFORE** your hearing adapts.

### To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

### Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

## We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

### Decibel

Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

### THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.



Should this product require service in the U.S.A. and you wish to locate the nearest Pioneer Authorized Independent Service Company, or if you wish to purchase replacement parts, operating instructions, service manuals, or accessories, please call the number shown below.

1 - 8 0 0 - 4 2 1 - 1 4 0 4

Please do not ship your product to Pioneer without first calling the Customer Service Department at the above listed number for assistance.

PIONEER ELECTRONICS SERVICE, INC.  
CUSTOMER SUPPORT DIVISION  
P.O. BOX 1760, LONG BEACH,  
CA 90801-1760, U.S.A.

For warranty information please see the Limited Warranty sheet included with your product.

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